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## Document Number 1

Entry 1 of 1

File: USPT

Jun 14, 199

US-PAT-NO: 5320618

DOCUMENT-IDENTIFIER: US 5320618 A

TITLE: Device for treatment of undesired skin disfigurements

DATE-ISSUED: June 14, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gustafsson; Morgan	S-413 01 Goteborg	N/A	N/A	SEX

APPL-NO: 7/ 934516

DATE FILED: October 7, 1992

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: SE 9001298-0

FOREIGN-PRIORITY-APPL-DATE: April 9, 1990

PCT-DATA:

PCT-DATE-FILED: April 9, 1991

PCT-APPL-NO: PCT/SE91/00260

PCT-371-DATE: October 7, 1992

PCT-102(E)-DATE: October 7, 1992

PCT-PUB-NO: WO91/15264

PCT-PUB-DATE: October 17, 1991

INT-CL: [5] A61B 17/36

US-CL-ISSUED: 606/9; 606/11, 606/3, 606/16

US-CL-CURRENT: 606/9; 606/11, 606/16, 606/3FIELD-OF-SEARCH: 606/4, 606/14, 606/15, 606/16, 606/17, 606/18, 606/27, 606/28, 606/32, 606/34, 606/41, 606/10, 606/11, 606/2, 606/3, 606/9, 128/395, 128/396, 128/397, 128/398

REF-CITED:

### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3327712</u>	June 1967	Kaufmann et al.	N/A
<u>3693623</u>	September 1972	Harte et al.	606/9
<u>4233493</u>	November 1980	Nath	606/16
<u>4747660</u>	May 1988	Nishioka et al.	606/14
<u>4832024</u>	May 1989	Boussignac et al.	606/15
<u>4860172</u>	August 1989	Schlager et al.	606/17

### FOREIGN PATENT DOCUMENTS

COUNTRY	FOREIGN-PAT-NO	PUBN-DATE
GB	2044908	October 1980

ART-UNIT: 339

PRIMARY-EXAMINER: Pellegrino; Stephen C.

ASSISTANT-EXAMINER: Harris; Sonya

ATTY-AGENT-FIRM: Renz, Jr.; Eugene E.

ABSTRACT:

The present invention relates to a device for treating of superficial afflictions of the type telangiectasis by means of a directed light beam. The device can be produced at a very low cost compared with known devices due to the fact that a source of light (2) that produces non-coherent light is used, that means due to a non-use of laser.

that means due to a non-use of laser.

8 Claims, 6 Drawing figures

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3	BRS	L3	0	echhouse-	USPAT	2000/03/24 12:38
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Full Title Citation Front Review Classification Date Reference Claims RMC

## Document Number 11

Entry 11 of 13

File: USPT

May 6, 1997

US-PAT-NO: 5626631

DOCUMENT-IDENTIFIER: US 5626631 A

TITLE: Method and apparatus for therapeutic electromagnetic treatment

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eckhouse; Shimon	Haifa	N/A	N/A	ILX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
ESC Medical Systems Ltd.	Yokneam	N/A	N/A	ILX	03

APPL-NO: 8/ 383509

DATE FILED: February 3, 1995

PARENT-CASE:

RELATED APPLICATION This application is a continuation-in-part of prior U.S. application Ser. No. 07/964,210, filed Oct. 20, 1992, now U.S. Pat. No. 5,405,368, entitled "Method And Apparatus For Therapeutic Electromagnetic Treatment."

INT-CL: [6] A61 N 5/06

US-CL-ISSUED: 607/88; 606/9

US-CL-CURRENT: 607/88; 606/9

FIELD-OF-SEARCH: 507/88, 507/89, 507/90, 507/91, 507/92, 507/93, 507/94, 606/2, 606/3, 606/9, 606/10, 606/11, 606/12, 606/13, 606/17, 606/18, 606/19

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4022534	May 1977	Kishner	N/A
4298005	November 1981	Mutzhas	N/A
4608978	September 1986	Rohr	606/11
4686986	August 1987	Fenyo et al.	607/90
4757431	July 1988	Cross et al.	N/A
4784135	November 1988	Blum et al.	N/A
4829262	May 1989	Furumoto	N/A
4930504	June 1990	Diamantopoulos et	N/A
4950880	August 1990	al.	N/A
5161526	November 1992	Hayner	N/A
5207671	May 1993	Hellwing et al.	N/A
5217455	June 1993	Franken et al.	N/A
5259380	November 1993	Tan	N/A
5320618	June 1994	Mendes et al.	N/A
5344418	September 1994	Gustafsson	N/A
Ghaffari			

## FOREIGN PATENT DOCUMENTS

COUNTRY	FOREIGN-PAT-NO	PUBN-DATE
DE	3906860A1	September 1989

ART-UNIT: 331

PRIMARY-EXAMINER: Sykes; Angela D.

ASSISTANT-EXAMINER: Winakur; Eric F.

ATTY-AGENT-FIRM: Foley &amp; Lardner

ATTY-AGENT-FIRM: Foley &amp; Lardner

## ABSTRACT:

A therapeutic treatment device for coagulating blood in blood vessels underlying an epidermal layer is disclosed having an incoherent light source operable to provide a pulsed light output for treatment and a driver circuit, including a switch capable of being electrically turned on and being electrically turned off to thereby provide a first interval of light, connected to the light source to control the pulse width and delay between pulses.

10 Claims, 19 Drawing figures

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Full Title Citation Front Review Classification Date Reference Claims KMC

## Document Number 7

Entry 7 of 13

File: USPT

May 26, 199

US-PAT-NO: 5755751

DOCUMENT-IDENTIFIER: US 5755751 A

TITLE: Method and apparatus for therapeutic electromagnetic treatment

DATE-ISSUED: May 26, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eckhouse; Shimon	Hafia	N/A	N/A	ILX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
ESC Medical Systems Ltd.	Yokneam	N/A	N/A	ILX	03

APPL-NO: 8/ 473532

DATE FILED: June 7, 1995

PARENT-CASE:

This is a continuation of U.S. Ser. No. 08/383,509 filed on Feb. 3, 1995 entitled METHOD AND APPARATUS FOR THERAPEUTIC ELECTROMAGNETIC TREATMENT, now U.S. Pat. No. 5,626,631, which is a continuation-in-part of U.S. Ser. No. 07/964,210, filed Oct. 20, 1992, now U.S. Pat. No. 5,405,368.

INT-CL: [6] A61 N 5/06

US-CL-ISSUED: 607/88; 606/9

US-CL-CURRENT: 607/88; 606/9

FIELD-OF-SEARCH: 607/88, 607/89, 607/90, 607/91, 607/92, 607/93, 607/54, 606/2, 606/3, 606/9, 606/10, 606/11, 606/12, 606/13, 606/17, 606/18, 606/19

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3693623	September 1972	Harte et al.	606/3
4022534	May 1977	Kishner	N/A
4298005	November 1981	Mutzhas	N/A
4608978	September 1986	Rohr	606/11
4686986	August 1987	Fenyo et al.	607/90
4757431	July 1988	Cross et al.	N/A
4784135	November 1988	Blum et al.	N/A
4829262	May 1989	Furumoto	N/A
4930504	June 1990	Diamantopoulos et	N/A
4950880	August 1990	al.	N/A
5161526	November 1992	Hayner	N/A
5207671	May 1993	Hellwing et al.	N/A
5217455	June 1993	Franken et al.	N/A
5259380	November 1993	Tan	N/A
5320618	June 1994	Mendes et al.	N/A
5344418	September 1994	Gustafsson	N/A
Ghaffari			

## FOREIGN PATENT DOCUMENTS

COUNTRY	FOREIGN-PAT-NO	PUBN-DATE
DE	3906860A1	March 1989
ART-UNIT:	331	

PRIMARY-EXAMINER: Bahr; Jennifer  
ASSISTANT-EXAMINER: Winakur; Eric F.  
ATTY-AGENT-FIRM: Foley & Lardner  
ABSTRACT:

A therapeutic treatment method includes the steps of providing a pulsed incoherent light output for treatment, directing the pulsed light output to a treatment area, transmitting the pulsed light output through the epidermis at the treatment area, heating the epidermis to a temperature below the temperature at which the epidermis is damaged, and coagulating blood in blood vessels disposed below the epidermis.

40 Claims, 19 Drawing figures

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## Document Number 4

Entry 4 of 13

File: USPT

Nov 17, 199

US-PAT-NO: 5836999

DOCUMENT-IDENTIFIER: US 5836999 A

TITLE: Method and apparatus for treating psoriasis using pulsed electromagnetic radiation

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eckhouse; Shimon	Haifa	N/A	N/A	ILX
Kreindel; Michael	Haifa	N/A	N/A	ILX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
ESC Medical Systems Ltd.	Yokneam	N/A	N/A	ILX	03

APPL-NO: 8/ 535705

DATE FILED: September 28, 1995

INT-CL: [6] A61 N 5/06

US-CL-ISSUED: 607/88; 607/90, 607/94, 606/3

US-CL-CURRENT: 607/88; 606/3, 607/90, 607/94

FIELD-OF-SEARCH: 607/88-89, 607/90, 607/91, 607/94, 606/11-17, 606/2-6

REF-CITED:

### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4022534	May 1977	Kishner	N/A
4298005	November 1981	Mutzhas	N/A
4757431	July 1988	Cross et al.	N/A
4784135	November 1988	Blum et al.	N/A
4829262	May 1989	Furumoto	N/A
4840798	June 1989	Skaliots	424/488
4926861	May 1990	Fengo et al.	607/88
4930504	June 1990	Diamantopoulos et	N/A
4950880	August 1990	al.	N/A
5161526	November 1992	Hayner	N/A
5207671	May 1993	Hellwing et al.	N/A
5217455	June 1993	Franken et al.	N/A
5259380	November 1993	Tan	N/A
5320618	June 1994	Mendes et al.	N/A
5344418	September 1994	Gustafsson	N/A
5344434	September 1994	Ghaffari	N/A
5405368	April 1995	Talmore	607/88
5454807	October 1995	Eckhouse	606/17

Lennoxet al.

### FOREIGN PATENT DOCUMENTS

COUNTRY	FOREIGN-PAT-NO	PUBN-DATE
DE	3906860-A1	September 1989

ART-UNIT: 331  
 PRIMARY-EXAMINER: Lacyk; John P.  
 ATTY-AGENT-FIRM: Foley & Lardner



## ABSTRACT:

A method and apparatus for treating psoriasis includes a source of incoherent electromagnetic energy. The energy is directed to a region of tissue to be treated. The pulse duration and the number of pulses may be selected to control treatment parameters such as the heating of healthy tissue and the penetration depth of the energy to optimize the treatment. Also, the radiation may be filtered to control the radiation spectrum and penetration depth. The filtering may include attenuating an UV portion of the radiation spectrum and portions of the spectrum below a desired treatment bandwidth. A light guide for large or small spot sizes may be used to direct the light to the skin. A cooling gel is applied to the skin to be treated in another embodiment. The gel may be cooled either before or after it is applied to the skin.

12 Claims, 2 Drawing figures

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File: USPT

Mar 23, 199

✓  
US-PAT-NO: 5885273

DOCUMENT-IDENTIFIER: US 5885273 A

TITLE: Method for depilation using pulsed electromagnetic radiation

DATE-ISSUED: March 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eckhouse; Shimon	Haifa	N/A	N/A	ILX
Bachrach; Hillel	Needham	MA	N/A	N/A

US-CL-CURRENT: 606/9; 606/10, 606/13, 606/2[Main Menu](#) [Search Form](#) [Result Set](#) [Show S Numbers](#) [Edit S Numbers](#) [Referring Patents](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KMC](#)[Help](#)[Logout](#)

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File: USPT

Sep 26, 197

US-PAT-NO: 3693623

DOCUMENT-IDENTIFIER: US 3693623 A

TITLE: PHOTOCOAGULATION MEANS AND METHOD FOR DEPILATION

DATE-ISSUED: September 26, 1972

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harte; Richard A.	Redwood City	CA	N/A	N/A
Amstutz; Edwin A.	Santa Clara	CA	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Gregory System, Inc.	Houston	TX	N/A	N/A	02

APPL-NO: 5/ 092598

DATE FILED: December 25, 1970

## PARENT-CASE:

This application is a continuation-in-part of the copending abandoned application Ser. No. 23,921 filed Mar. 30, 1970.

INT-CL: [] A61r 3/00

US-CL-ISSUED: 128/303.1; 128/355, 128/398

US-CL-CURRENT: 606/9; 606/11, 606/15, 606/3

FIELD-OF-SEARCH: 128/303.1, 128/398, 128/303.18, 128/355

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3538919	November 1970	Meyer	128/398
3471215	October 1969	Snitzer	N/A
3327712	June 1967	Kaufman et al.	128/398

ART-UNIT: 335

PRIMARY-EXAMINER: Trapp; Lawrence W.

ATTY-AGENT-FIRM: Brown; Laurence R.

## ABSTRACT:

Depilation is effected by use of light energy of a selected frequency band concentrated into a flexible fiber small enough to enter the region of the follicle. This effects photocoagulation tissue in a limited region determined by the placement of the fiber.

20 Claims, 3 Drawing figures

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## Document Number 1

Entry 1 of 1

File: USPT

Sep 2, 1986

US-PAT-NO: 4608978

DOCUMENT-IDENTIFIER: US 4608978 A

TITLE: Method and apparatus for photoepiltion

DATE-ISSUED: September 2, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rohr; Carol B.	Lincolnwood	IL	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Carol Block Limited	McHenry	IL	N/A	N/A	02

APPL-NO: 6/ 535857

DATE FILED: September 26, 1983

INT-CL: [4] A61N 5/00

US-CL-ISSUED: 128/303.1; 128/355, 128/398

US-CL-CURRENT: 606/9; 606/11, 607/93

FIELD-OF-SEARCH: 128/303.1, 128/395-398, 128/305, 128/303.18, 128/907

### REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3693623	September 1972	Harte et al.	N/A
4309998	January 1982	Aron et al.	N/A
4321926	March 1982	Roge	128/303.18
4388924	June 1983	Weissman et al.	N/A
4408617	October 1983	Augusta	N/A

#### FOREIGN PATENT DOCUMENTS

COUNTRY	FOREIGN-PAT-NO	PUBN-DATE
DE	2820903	November 1978
FR	2371935	June 1978

ART-UNIT: 335

PRIMARY-EXAMINER: Cohen; Lee S.

ATTY-AGENT-FIRM: Silverman, Cass &amp; Singer

### ABSTRACT:

The certain quantity of light energy sufficient to effect lifelessness in each of a particular type of hairs, such as is found in a face, arm or back, is provided to the tip of a hand held probe each time a switch is closed, independent of the duration of the switch closure. This relieves the electrologist from having to manually count times, or the number of pulses of light energy applied to a hair body, to effect lifelessness therein. Such counting has been a major part of the photoepilation procedure, and a burden on the electrologist's faculties. In one embodiment, actuating a foot switch provides a series of timed and spaced pulses of light energy for a period, which is selectable by rotating a wiper of a variable resistor-capacitor circuit. The sum of the energies of the pulses over the selected period equals the certain quantity of light energy. In another embodiment, depressing one of four foot switches provides one of four fixed periods of light pulses. In both embodiments, the certain quantity of light energy is first determined for the hair type and then that certain quantity is used for all the hairs of that type to be removed.

10 Claims, 4 Drawing figures

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## Document Number 3

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File: USPT

Mar 23, 199

US-PAT-NO: 5885274

DOCUMENT-IDENTIFIER: US 5885274 A

TITLE: Filament lamp for dermatological treatment

DATE-ISSUED: March 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fullmer; David J.	Auburn	CA	N/A	N/A
Hennings; David R.	Auburn	CA	N/A	N/A
Sand; Bruce J.	Beverly Hills	CA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
New Star Lasers, Inc.	Auburn	CA	N/A	N/A	02

APPL-NO: 8/ 881539

DATE FILED: June 24, 1997

INT-CL: [6] A61 B 17/36

US-CL-ISSUED: 606/9; 606/3, 606/13

US-CL-CURRENT: 606/9; 606/13, 606/3

FIELD-OF-SEARCH: 606/9, 606/3, 606/13, 607/100, 607/88

REF-CITED:

### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3867948	February 1975	Kallenborn	607/88
5511563	April 1996	Diamond	606/3
5683380	November 1997	Eckhouse et al.	606/3

ART-UNIT: 371

PRIMARY-EXAMINER: Buiz; Michael

ASSISTANT-EXAMINER: Woo; Julian W.

ATTY-AGENT-FIRM: Shahani, Esq.; Ray K.

ABSTRACT:

Thermal modification of dermatological tissue using non-laser infrared light energy. A high energy incandescent-type lamp, such as a quartz tungsten halogen lamp, operated in a pulsed mode with a high voltage input, creates a particular energy output. Applications of such apparatus and methods include treatment of the dermis and/or sub-epidermal tissues for the purpose of skin recontouring, thermal destruction of hair follicles for the purpose of hair removal, and others.

21 Claims, 4 Drawing figures

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